

5.0 AOC 6 - AGENT ID AREA

5.1 LOCATION OF STUDY AREA

The Agent ID Area comprises approximately 1.5 acres within the Cantonment Area at the Fort McClellan, Alabama Army Installation (Fig. 1). The study area boundary was devised by adding a 50-ft buffer outside of the Agent ID Area site boundary.

5.2 AERIAL PHOTOGRAPH QUALITY ISSUES

A few photograph quality issues were encountered during photograph interpretation. They were corrected as follows:

- X **Quality** - In many areas of the photographs, the dynamic range of brightness values was insufficient to distinguish land cover classes. Due to extreme brightness (almost white), ground cover such as grass, bare soil, trails, and roads could not be differentiated. Buildings could only be differentiated from paved areas by stereo viewing. Where appropriate, problem areas of the photographs were subset and image enhancement techniques were applied. Simple adjustments to the brightness and contrast were conducted, or in more severe cases, a histogram equalization in the range of the lookup table was performed on the specific area where interpretation was difficult.
- X **Rectification** - Although second- and third-order transformations were used in the rectification of the digital photographs, all of the photograph rectification within the Agent ID Area contained too much error to accurately digitize land use/cover polygons. The primary factor contributing to the error was terrain distortion. Factors contributing to the error included: (1) insufficient ground control points (GCPs) due to pronounced changes in land cover between years, (2) photographic distortion (location of the site in relation to the center of the photograph and the angle of the camera/aircraft when the photograph was acquired), and (3) terrain distortion (a single photograph may cover a large geographic area of varying elevations even though the site of interest may have little topographic relief). To improve the photographic registration of the study area, the Agent ID Area was subset from the rectified digital photographs in question and the newly-created image files were rectified separately.

5.3 FINDINGS

Complete photographic coverage of the study area was available for eight years of photographic coverage from 1937 to 1994. A total of 185 anomalies were identified in the year-by-year land cover analysis (Fig. 2). All anomalies were inspected to ascertain the cause of each anomaly. All anomalies were resolved except for 15 unidentified objects. Anomalies potentially associated with waste disposal or chemical training activities were determined to be of potential concern and should be assessed by the USAESCH. During the final quality assurance review of the land use/cover anomalies, one anomaly was determined to be caused by photographic interpretation error. This anomaly is identified as "QA" in Table 2 and will not be discussed further. Of the anomalies identified, 150 were caused by new roads, pre-existing and former roads and trails, construction and removal of buildings, parking lots, a recreational track, pre-existing and former unidentified objects, cleared areas associated with construction of buildings or parking lots, and pre-existing and former

cleared areas. The remaining 34 anomalies are of potential concern and were the result of trails, unidentified structures, and the clearing of trees and groundcover.

1937. Six anomalous areas were identified during the interpretation of the 1937 photographs (see Table 2 and Fig. 3a). Three anomalies were the result of a pre-existing road, a parking lot, and a cleared area associated with the parking lot. The remaining three anomalies are of potential concern and were the result of an unidentified areas (2 anomalies) and another cleared area (1 anomaly)

1937 to 1940. Fourteen anomalies were identified during the land cover change analysis for the years 1937 and 1940 (see Table 2 and Fig. 3b). Nine anomalies were the result of new and pre-existing roads, a pre-existing parking lot, pre-existing cleared areas, cleared areas associated with parking lots, and pre-existing unidentified objects. The remaining five anomalies are of potential concern and were the result of unidentified objects (2 anomalies) and cleared areas (3 anomalies).

1940 to 1944. Forty anomalies were identified during the land cover change analysis for the years 1940 and 1944 (see Table 2 and Fig. 3c). Thirty-four of the anomalies were the result of new and pre-existing roads, buildings, former unidentified objects, pre-existing and former cleared areas, cleared areas associated with building construction, and pre-existing parking lots. The remaining six anomalies are of potential of concern and were the result of unidentified objects (3 anomalies), trails (2 anomalies) and another cleared area (1 anomaly).

1944 to 1954. Twenty-four anomalies were identified during the land cover change analysis for the years 1944 and 1954 (see Table 2 and Fig. 3d). Nineteen of the anomalies were the result of pre-existing and former roads, pre-existing trails, pre-existing buildings, new and pre-existing parking lots, former unidentified objects, and former cleared areas. The remaining five anomalies are of potential concern and were the result of unidentified objects (4 anomalies) and a trail (1 anomaly).

1954 to 1961. Twenty anomalies were identified during the land cover change analysis for the years 1954 and 1961 (see Table 2 and Fig. 3e). All of the anomalies were the result of new and pre-existing roads, pre-existing and former trails, pre-existing buildings, parking lots, and unidentified objects. There are no anomalies of potential concern.

1961 to 1969. Thirty-seven anomalies were identified during the land cover change analysis for the years 1961 and 1969 (see Table 2 and Fig. 3f). Twenty-seven of the anomalies were the result of pre-existing and former roads, pre-existing and former trails, former unidentified objects, pre-existing and former buildings, and parking lots. The remaining ten anomalies are of potential concern and were the result of trails (10 anomalies).

1969 to 1982. Thirty-one anomalies were identified during the land cover change analysis for the years 1969 and 1982 (see Table 2 and Fig. 3g). Twenty-six of the anomalies were the result of pre-existing and former roads, pre-existing and former trails, former buildings and parking lots, recreational tracks, landscaping, and trails inside the recreational track. The remaining five anomalies are of potential concern and were the result of unidentified objects (4 anomalies) and a trail (1 anomaly).

1982 to 1994. Twelve anomalies were identified during the land cover change analysis for the years 1982 and 1994 (see Table 2 and Fig. 3h). All of the anomalies were the result of new and former roads, former trails, new and pre-existing landscaping, a pre-existing recreational track, and a cleared area resulting from a former trail. There are no anomalies of potential concern.

Figure 1

Fig 2

Table 2. Agent ID Area - Anomaly Resolution

Of Potential Concern?	Anomaly #	Year of Change	Discussion	Related Anomalies ¹
Yes	1	1937	Unidentified object	14, 37-39
Yes	2	1937	Unidentified object	13, 45, 46
Yes	3	1937	Cleared area	10, 22, 36, 49, 51, 54, 62, 79
	4	1937	Road	8, 21, 61, 85, 105, 143, 174
	5	1937	Cleared area (associated with parking lot)	16, 56
	6	1937	Parking lot	18, 57, 83, 96, 116
Yes	7	1940	Cleared area	None
	8	1940	Pre-existing road (first visible 1937)	4, 21, 61, 85, 105, 143, 174
Yes	9	1940	Cleared area	28
	10	1940	Pre-existing cleared area (first visible 1937)	3, 22, 36, 49, 51, 54, 62, 79
Yes	11	1940	Unidentified object	40, 41
Yes	12	1940	Unidentified object	42-43
	13	1940	Pre-existing unidentified object (first visible 1937)	2, 45, 46
	14	1940	Pre-existing unidentified object (first visible 1937)	1, 37-39
Yes	15	1940	Cleared area	51
	16	1940	Pre-existing cleared area (first visible 1937)	5, 56
	17	1940	Cleared area (associated with parking lot)	58, 84
	18	1940	Pre-existing parking lot (first visible 1937)	6, 57, 83, 96, 116
	19	1940	Road	57, 83, 96, 116
	20	1940	Cleared area (associated with road and parking lot)	60, 84
	21	1944	Pre-existing road (first visible 1937)	4, 8, 61, 85, 105, 143, 174
	22	1944	Pre-existing cleared area (first visible 1937)	3, 10, 62, 79
Yes	23	1944	Cleared area	62
	24	1944	Road	67
Yes	25	1944	Unidentified objects	66
Yes	26	1944	Unidentified objects	68
Yes	27	1944	Unidentified object	68

Of Potential Concern?	Anomaly #	Year of Change	Discussion	Related Anomalies ¹
	28	1944	Former cleared area (first visible 1940)	9
	29	1944	Road	67
	30	1944	Building	65, 91, 112, 152
	31	1944	Building	65, 91, 112, 152
	32	1944	Building	65, 91, 112, 152
	33	1944	Building	69, 89, 110, 147
	34	1944	Road	71, 72, 92, 113, 154
	35	1944	Road	72-74, 92, 113, 154
	36	1944	Former cleared area (first visible 1937)	3, 10
	37	1944	Former unidentified object (first visible 1937)	1, 14
	38	1944	Road (former unidentified object - first visible 1937)	1, 14, 72, 92, 113, 154
	39	1944	Former unidentified object (first visible 1937)	1, 14
	40	1944	Road (former unidentified object - first visible 1940)	11, 72, 92, 113, 154
	41	1944	Former unidentified object (first visible 1940)	11
	42	1944	Building (former unidentified object - first visible 1940)	12, 65, 91, 112, 152
	43	1944	Cleared area (in shadow) (former unidentified object - first visible 1940); associated with building construction	12
	44	1944	Road (former unidentified object - first visible 1940)	12, 72, 92, 113, 154
	45	1944	Road (former unidentified object - first visible 1937)	2, 13, 72, 92, 113, 154
	46	1944	Former unidentified object (first visible 1937)	2, 13
	47	1944	Cleared area (associated with building construction)	None
	48	1944	Cleared area (associated with building construction)	None
	49	1944	Road (former cleared area - first visible 1937)	3, 10, 72, 92, 113, 154, 157, 158, 185
	50	1944	Building	80, 93, 114, 155
	51	1944	Former cleared area (first visible 1940)	3, 10, 15
Yes	52	1944	Trail	81, 94, 115, 156, 185
Yes	53	1944	Trail	81, 94, 115, 156, 185
	54	1944	Former cleared area (first visible 1937)	3, 10

Of Potential Concern?	Anomaly #	Year of Change	Discussion	Related Anomalies ¹
	55	1944	Road	72, 92, 113, 157, 158, 185
	56	1944	Former cleared area (first visible 1937)	5, 16
	57	1944	Pre-existing parking lot (first visible 1937)	6, 18, 19, 83, 96, 116
	58	1944	Pre-existing cleared area (first visible 1940)	17, 84
	59	1944	Cleared area (associated with road and parking lot)	84
	60	1944	Pre-existing cleared area (first visible 1940)	20, 84
	61	1954	Pre-existing road (first visible 1937)	4, 8, 21, 85, 105, 143, 174
	62	1954	Former cleared area (first visible 1937)	3, 10, 22, 23
Yes	63	1954	Unidentified objects	87, 108, 109, 139
Yes	64	1954	Unidentified objects	88, 140-142
	65	1954	Pre-existing building (first visible 1944)	30-32, 42, 91, 112, 152
	66	1954	Former unidentified object (first visible 1944)	25
	67	1954	Former road (first visible 1944)	24, 29
	68	1954	Former unidentified object (first visible 1944)	26, 27
	69	1954	Pre-existing building (first visible 1944)	33, 89, 110, 147
	70	1954	Parking lot	90, 111, 153
	71	1954	Parking lot (former road - first visible 1944)	34, 90, 111, 153
	72	1954	Pre-existing road (first visible 1944)	34, 35, 38, 40, 44, 45, 49, 55, 92, 113, 154, 157, 158, 185
	73	1954	Former road (first visible 1944)	35
	74	1954	Former road (first visible 1944)	35
	75	1954	Trail (leads to unidentified objects)	97, 98, 100, 102, 104, 118, 119, 120, 125-127, 134-136, 138, 159, 160, 164, 165, 168, 170, 171
	76	1954	Building	99, 129, 130
Yes	77	1954	Unidentified objects	101, 131-133
Yes	78	1954	Unidentified objects	103, 122-124
	79	1954	Former cleared area (first visible 1937)	3, 10, 22
	80	1954	Pre-existing building (first visible 1944)	50, 93, 114, 155

Of Potential Concern?	Anomaly #	Year of Change	Discussion	Related Anomalies ¹
	81	1954	Pre-existing trail (first visible 1944)	52, 53, 94, 115, 156, 185
Yes	82	1954	Trail	95
	83	1954	Pre-existing parking lot (first visible 1937)	6, 18, 19, 57, 96, 116
	84	1954	Former cleared area (first visible 1940)	17, 20, 58, 59, 60
	85	1961	Pre-existing road (first visible 1937)	4, 8, 21, 61, 105, 143, 174
	86	1961	Road	106, 138
	87	1961	Pre-existing unidentified objects (first visible 1954)	63, 108, 109, 139
	88	1961	Pre-existing unidentified objects (first visible 1954)	64, 140-142
	89	1961	Pre-existing building (first visible 1944)	33, 69, 110, 147
	90	1961	Pre-existing parking lot (first visible 1954)	70, 71, 111, 153
	91	1961	Pre-existing building (first visible 1944)	30-32, 42, 65, 112, 152
	92	1961	Pre-existing road (first visible 1944)	34, 35, 38, 40, 44, 45, 49, 55, 72, 113, 154, 157, 158, 185
	93	1961	Pre-existing building (first visible 1944)	50, 80, 114, 155
	94	1961	Pre-existing trail (first visible 1944)	52, 53, 81, 115, 156, 185
	95	1961	Former trail (first visible 1954)	82
	96	1961	Pre-existing parking lot (first visible 1937)	6, 18, 19, 57, 83, 116
	97	1961	Road (former trail - first visible in 1954)	75, 118, 119, 135, 136, 138, 159, 160, 165, 168, 171
	98	1961	Pre-existing trail (first visible 1954)	75, 120, 160
	99	1961	Pre-existing building (first visible 1954)	76, 129, 130
	100	1961	Former trail (first visible 1954; new road in 1969)	75, 134, 164, 165
	101	1961	Pre-existing unidentified objects (first visible 1954)	77, 131-133
	102	1961	Pre-existing trail (first visible 1954)	75, 125-127
	103	1961	Pre-existing unidentified objects (first visible 1954)	78, 122-124
	104	1961	Former trail (first visible 1954)	75
	105	1969	Pre-existing road (first visible 1937)	4, 8, 21, 61, 85, 143, 174
Yes	106	1969	Trail (part of overgrown road - first visible 1961)	86, 144, 175

Of Potential Concern?	Anomaly #	Year of Change	Discussion	Related Anomalies ¹
Yes	107	1969	Trail	144, 175
	108	1969	Former unidentified objects (first visible 1954)	63, 87
Yes	109	1969	Trail (former unidentified objects - first visible 1954)	63, 87, 146
	110	1969	Pre-existing building (first visible 1944)	33, 69, 89, 147
	111	1969	Pre-existing parking lot (first visible 1954)	70, 71, 90, 153
	112	1969	Pre-existing building (first visible 1944)	30-32, 42, 65, 91, 152
	113	1969	Pre-existing road (first visible 1944)	34, 35, 38, 40, 44, 45, 49, 55, 72, 92, 154, 157, 158, 185
	114	1969	Pre-existing building (first visible 1944)	50, 80, 93, 155
	115	1969	Pre-existing trail (first visible 1944)	52, 53, 81, 94, 156, 185
	116	1969	Former parking lot (first visible 1937)	6, 18, 19, 57, 83, 96
	117	1969	Road widened	159
	118	1969	Pre-existing trail (first visible 1954)	75, 97, 159, 160
	119	1969	Former trail (first visible 1954)	75, 97
	120	1969	Pre-existing trail (first visible 1954)	75, 98, 160
Yes	121	1969	Trail	162, 185
	122	1969	Former unidentified objects (first visible 1954)	78, 103
Yes	123	1969	Trail (former unidentified objects - first visible 1954)	78, 103, 162, 185
	124	1969	Former unidentified objects (first visible 1954)	78, 103
	125	1969	Former trail (first visible 1954)	75, 102
Yes	126	1969	Trail (part of former trail - first visible 1954)	75, 102, 162, 185
	127	1969	Former trail (first visible 1954)	75, 102
	128	1969	QA	
	129	1969	Former building (first visible 1954)	76, 99, 130
	130	1969	Former building (first visible 1954)	76, 99, 129
	131	1969	Former unidentified objects (first visible 1954); incorrectly coded as trail	77, 101
	132	1969	Former unidentified objects (first visible 1954)	77, 101
	133	1969	Former unidentified objects (first visible 1954)	77, 101

Of Potential Concern?	Anomaly #	Year of Change	Discussion	Related Anomalies ¹
Yes	134	1969	Trail (southern portion first visible 1954)	75, 100, 146, 162, 164, 165
	135	1969	Former trail (first visible 1954)	75, 97, 168
Yes	136	1969	Trail (part of former trail - first visible 1961)	75, 97, 165
Yes	137	1969	Trail	165, 166
	138	1969	Former road (first visible 1961)	75, 86, 97, 171
	139	1969	Former unidentified objects (first visible 1954)	63, 87
	140	1969	Former unidentified objects (first visible 1954)	64, 88
Yes	141	1969	Trail (former unidentified objects - first visible 1954)	64, 88, 146
	142	1969	Former unidentified objects (first visible 1954)	64, 88
	143	1982	Pre-existing road (first visible 1937)	4, 8, 21, 61, 85, 105, 174
	144	1982	Pre-existing trail widened (first visible 1961)	106, 107, 175
Yes	145	1982	Trail	176
	146	1982	Former trail (first visible 1969)	109, 134, 141
	147	1982	Former building (first visible 1944)	33, 69, 89, 110
Yes	148	1982	Unidentified object (former building - first visible 1944)	177
Yes	149	1982	Unidentified object	177
Yes	150	1982	Unidentified object (former parking lot - first visible 1954)	177
Yes	151	1982	Unidentified object (former building - first visible 1944)	177
	152	1982	Former building (first visible 1944)	30-32, 42, 65, 91, 112
	153	1982	Former parking lot (first visible 1954)	70, 71, 90, 111
	154	1982	Former road (first visible 1944)	34, 35, 38, 40, 44, 45, 49, 72, 92, 113
	155	1982	Former building (first visible 1944)	50, 80, 93, 114
	156	1982	Pre-existing trail (first visible 1944)	52, 53, 81, 94, 115, 185
	157	1982	Trail (overgrown road - first visible 1944)	49, 55, 72, 92, 113, 185
	158	1982	Former road (first visible 1944)	49, 55, 72, 92, 113, 185
	159	1982	Former trail (first visible 1954)	75, 97, 117, 118
	160	1982	Recreational track	75, 97, 98, 118, 120, 179
	161	1982	QA (associated with 128)	

Of Potential Concern?	Anomaly #	Year of Change	Discussion	Related Anomalies ¹
	162	1982	Pre-existing trail (first visible 1969)	121, 123, 126, 134, 185
	163	1982	Recreational track	179
	164	1982	Recreational track	75, 100, 134, 179
	165	1982	Pre-existing trail (first visible 1954)	75, 97, 100, 134, 136, 181, 183, 184
	166	1982	Pre-existing trail (first visible 1969)	137
	167	1982	Landscaping	None
	168	1982	Trail (inside recreational track)	75, 97, 135, 181
	169	1982	Landscaping	182
	170	1982	Landscaping	75, 182
	171	1982	Trail (inside recreational track)	75, 97, 138, 181
	172	1982	Landscaping	180
	173	1982	Recreational track	179
	174	1994	Pre-existing road (first visible 1937)	4, 8, 21, 61, 85, 105, 143
	175	1994	Former trail (first visible 1969)	106, 107, 144
	176	1994	Road (former trail - first visible 1982)	145
	177	1994	Former unidentified object (first visible 1982)	148-151
	178	1994	Road	None
	179	1994	Pre-existing recreational track (first visible 1982)	160, 163, 164, 173
	180	1994	Pre-existing landscaping (first visible 1982)	172
	181	1994	Landscaping (former trail - partially first visible 1954)	165, 168, 171
	182	1994	Pre-existing landscaping (first visible 1982)	169, 170
	183	1994	Cleared area within recreational track (former trail - first visible 1954)	165
	184	1994	Landscaping (former trail - first visible 1954)	165
	185	1994	Former trail (partially first visible 1944; partially first visible 1969)	49, 52, 53, 55, 72, 81, 92, 94, 113, 115, 121, 123, 126, 156-158, 162

¹ Related anomalies refer to anomalies which are carried forward from year to year (e.g., a trail), anomalies which change, or the extension or widening of a trail or cleared area).

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Fig. 3a

Fig. 3b

Fig. 3c

fig. 3d

Fig. 3e

Fig. 3f

Fig. 3g

Fig. 3h

5.4 ANOMALIES OF POTENTIAL CONCERN

One hundred eighty-four anomalies were identified during the photographic interpretation of the Agent ID Area. All anomalies have been resolved except for fifteen unidentified objects. Thirty-four anomalies are considered to be of potential concern. To facilitate anomaly tracking, the anomalies of potential concern were mapped using the anomaly tracking number assigned in the year-by-year analysis (see Table 2 and Fig. 4). Table 2 provides information for each anomaly of potential concern, including the anomaly tracking number, coordinates for the approximate center of the anomaly (coordinates provided in Alabama State Plane East, North American Datum [NAD] 83), the year the change occurred, and the reason for the anomaly.

Table 2. Agent ID Area - Anomalies of Concern

Anomaly #	Alabama State Plane Coordinates (approximate anomaly center)		Year of Change	Discussion
	X-Coordinate	Y-Coordinate		
1	671221.95650	1168847.17145	1937	This unidentified object was present in the 1937 photographs. The object was present in photographs acquired in 1940, but was gone by 1944.
2	671229.58731	1168817.41130	1937	This unidentified object was present in the 1937 photographs. The object was present in photographs acquired in 1940, but was gone by 1944.
3	671444.77613	1168718.21078	1937	This large area was cleared prior to 1937. The area remained clear through 1944. By 1954, rows of unidentified objects were present in this area (see anomalies of potential concern 63, 64, 77, and 78).
7	671437.90840	1168945.60889	1940	This area was cleared between 1937 and 1940. The area remained clear in 1944 photographs. By 1954, ground cover (grass) was present at the site. Since 1954, the area has remained grass-covered.
9	671302.08000	1168863.19615	1940	This area was cleared between 1937 and 1940. By 1944, unidentified objects were present north of this location (see anomaly of potential concern 27).
11	671238.74428	1168854.03918	1940	An unidentified object was present in this location in 1940. By 1944, the object was no longer present.
12	671249.42741	1168823.51595	1940	An unidentified object was present in this location in 1940. By 1944, the object was no longer present.
15	671246.37509	1168715.15845	1940	This area was cleared between 1937 and 1940. By 1944, the area contained a low ground cover. The area was maintained through 1994.
23	671406.62209	1168941.03041	1944	This area was cleared between 1940 and 1944. By 1954, the area was grass-covered and remained grass-covered through 1994.
25	671343.28637	1168910.50717	1944	A row of unidentified objects were present in this location in 1944. By 1954, the objects had been removed.
26	671296.73843	1168894.48247	1944	A row of unidentified objects were present in this location in 1944. By 1954, the objects had been removed.
27	671299.79076	1168874.64237	1944	An unidentified object was present in this location in 1944. By 1954, the object had been removed.
52	671229.58731	1168708.29073	1944	A trail was evident in this location in the 1944 photographs. The trail remained in use through 1982.
53	671245.61201	1168709.81689	1944	A trail was evident in this location in the 1944 photographs. The trail remained in use through 1982.
63	671476.82553	1168793.75579	1954	A row of unidentified objects was present in this location in 1954. The objects were present in 1961, but were removed prior to the acquisition of the 1969 photographs.
64	671413.48981	1168767.81104	1954	A row of unidentified objects was present in this location in 1954. The objects were present in 1961, but were removed prior to the acquisition of the 1969 photographs.

Anomaly #	Alabama State Plane Coordinates (approximate anomaly center)		Year of Change	Discussion
	X-Coordinate	Y-Coordinate		
77	671348.62793	1168706.76456	1954	A row of unidentified objects was present in this location in 1954. The objects were present in 1961, but were removed prior to the acquisition of the 1969 photographs.
78	671318.86778	1168693.79219	1954	A row of unidentified objects was present in this location in 1954. The objects were present in 1961, but were removed prior to the acquisition of the 1969 photographs.
82	671278.42449	1168641.13960	1954	A trail was evident in the 1954 photographs for this area. By 1961, the trail was no longer in use.
106	671498.95488	1168914.32258	1969	A trail was evident in the 1969 photographs for this area. The trail was in use through 1982.
107	671480.64094	1168896.77171	1969	A trail was evident in the 1969 photographs for this area. The trail was in use through 1982.
109	671460.03775	1168855.56534	1969	A trail was evident in the 1969 photographs for this area. The trail was in use through 1982.
121	671294.44919	1168718.21078	1969	A trail was evident in the 1969 photographs for this area. The trail was in use through 1982.
123	671308.94773	1168724.31542	1969	A trail was evident in the 1969 photographs for this area. The trail was in use through 1982.
126	671318.10470	1168727.36775	1969	A trail was evident in the 1969 photographs for this area. The trail was in use through 1982.
134	671368.46804	1168762.46947	1969	A trail was evident in the 1969 photographs for this area. The trail was in use through 1982.
136	671444.77613	1168613.66869	1969	A trail was evident in the 1969 photographs for this area. The trail was in use through 1982.
137	671453.93310	1168596.11783	1969	A trail was evident in the 1969 photographs for this area. The trail was in use through 1982.
141	671408.14825	1168792.99271	1969	A trail was evident in the 1969 photographs for this area. The trail was in use through 1982.
145	671427.98835	1168924.24263	1982	A trail was evident in the 1982 photographs for this area. The trail remained in use in 1994.
148	671273.84600	1168885.32550	1982	An unidentified object was evident in the 1982 photographs for this area. The object was no longer present in photographs acquired in 1994.
149	671299.79076	1168880.74702	1982	An unidentified object was evident in the 1982 photographs for this area. The object was no longer present in photographs acquired in 1994.
150	671276.89833	1168865.48540	1982	An unidentified object was evident in the 1982 photographs for this area. The object was no longer present in photographs acquired in 1994.
151	671310.47389	1168855.56534	1982	An unidentified object was evident in the 1982 photographs for this area. The object was no longer present in photographs acquired in 1994.

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Fig. 4